Answer key

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Maths Worksheet 2025-26

Name : - _____ Std.:- V - _____

Roll No. :-_____ Term-2 Worksheet no. 2 Date : - _____

Chapter:- 8 Measurement 16 Volume

Q. 1) Choose the correct option.

1. To convert 70 cm into m, we divide it by _____
   a) 10 b) 1000 c) 100
2. Quantity of juice in a glass.
   a) less than 1L b) about 1 L c) more than 1 L.
3. 18 m is equal to _____.
   a) 1800 cm b) 180 cm c) 18000 cm
4. 1 ml = ____cm^3
   a) 10 b) 1 c) 100
5. The edge of a cube is _____ cm, if its volume is 343 cm^3
   a) 6 b) 7 c) 8
6. A _____ is simple closed plane figure made up 6 line segments.
   a) Pentagon b) Hexagon c) Triangle

Q.2) Fill in the blanks:

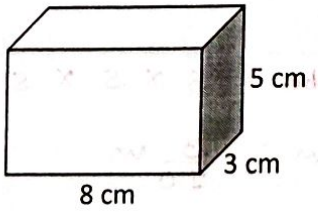
1. The quantity of a liquid that a container can hold is called its capacity
2. The Volume is the amount of space a solid takes up or encloses.
3. The volume of a cube = side × side × side
4. The standard unit of measuring length is m (metre)
5. Liquids are usually measured in L and mL.
6. A tank has a capacity of 2000 litres, which is equal to 2 kilolitres.

Q.3) Write "T" for True and "F" False statements.

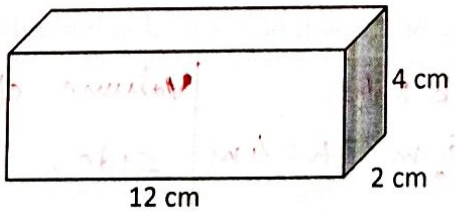
1. The volume of a solid object is measured in cubic units. T
2. The capacity of a bucket can be measured in litres. T
3. Volume changes when the shape of an object changes. F
4. 500 millilitres is more than 1 litre. F
5. Length is measured in litres. F
6. To convert higher units of length to lower units, we divide F

Q.4) Find the volume of each solid.

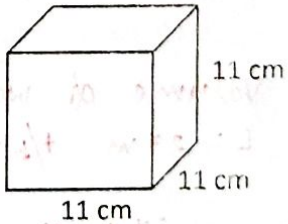
1)



2)



3)



Volume of cuboid = l × b × h = 8 cm × 3 cm × 5 cm = 120 cm^3	Volume of cuboid = l × b × h = 12 cm × 2 cm × 4 cm = 96 cm^3	Volume of square = s × s × s = 11 cm × 11 cm × 11 cm = 1331 cm^3

Q.5) Compare the given measurements. (>, < or =)

1. 27 km …>… 2700 m
2. 8570 g …>… $8\frac{1}{2}$ kg
3. 2200 cm …=… 22 m
4. 386 mm …>… 300 mm
5. 57 kg …>… 5936 g
6. 108 g …<… 11800 cg

Q.6) Solve the following

a) Express 8 litres in cubic centimetre.

1 L = 1000 mL

8 L = 8000 mL

1 mL = 1 cm^3

8000 mL = **8000 cm^3**

b) Express $\frac{5}{7}$ L in cL

1 L = 100 cL

$\frac{5}{7}$ L = $\frac{5}{7}$ × 100 cL

= $\frac{500}{7}$ cL = **$71\frac{3}{7}$ cL**

c) 125 kg 400 g – 112 kg 650 g

kg			g		
1	2	5	4	0	0
− 1	1	2	6	5	0
0	1	2	7	5	0

d) 44 L 325 mL + 65 L 811 mL

L		mL		
1	1			
4	4	3	2	5
+ 6	5	8	1	1
1	1	0	1	3	6

Q.7) Word problems.

1) A milkman had 25 L of milk. He sold 12 L 750 mL in the morning and 8 L 875 mL in the evening. How much milk is left?

Total volume of milk = 25 L

Volume of sold milk =

in morning =

in evening =

L		mL		
1	1	1		
1	2	7	5	0
+ 0	8	8	7	5
2	1	6	2	5

Volume of left milk

L		mL		
	4	9	9	10
2	5	0	0	0
− 2	1	6	2	5
0	3	3	7	5

3 L 375 mL milk is left.

2) A rectangular wall 27 m long, 60 cm thick and 4 m high is to be built. If cube-shaped bricks of side 30 cm each are used, how many bricks will be required to build the wall?

Volume of wall = l × b × h

l = 27 m t/b = 60 cm = $\frac{6}{10}$ m h = 4 m

= 27 m × $\frac{6}{10}$ m × 4 m

= $\frac{648}{10}$ m^3

= **64.8 m^3**

Volume of cube = s × s × s

side = 30 cm = $\frac{3}{10}$ m

= $\frac{3}{10}$ m × $\frac{3}{10}$ m × $\frac{3}{10}$ m

= $\frac{27}{1000}$ m^3

= **0.027 m^3**

No. of bricks required =

= $\frac{64.8\ m^3}{0.027\ m^3}$

= **2400**

3) A jug can hold 3 L 500 mL of water. How many 750 mL glasses can be filled completely from the jug? How much water will remain?

Capacity of a Jug = 3L 500 mL

= 3500 mL

Capacity of glass = 750 mL

No. of glasses can be filled from the jug

$= \frac{3500 \text{ mL}}{750 \text{ mL}}$

4 complete glasses can be filled & 500mL water will remain.

4) A shopkeeper has 20 kg 500 g of sugar. He packs it equally into 5 bags. How much sugar is there in each bag?

Total weight of sugar = 20 kg 500 g

No. of bags = 5

= 20 kg 500 g ÷ 5

= 4 kg 100 g

4 kg 100g sugar is there in each bag.

5) There is a flowerbed 80 cm long , 40 cm wide and 2 cm deep in Shruti's garden. Find the volume of the soil the gardener dug out to make the bed.

Volume of flowerbed = 80 cm × 40 cm × 2 cm

= 6400 cm^3

Gardener needs to dug out 6400 cm^3 soil to make the bed.